

FIG. 1

M K V L L L F A V F F C L V Q 100 AAGAAACTCAG R N S ${f gt}$ a a a typic the typic transfer of 300 caaattttacagcacggagacacagaggcctatattctccattgtgaataagaaggtctgattgtaacttgagagtttattcaggacagaattacagccg $500\ {\tt gtatgctttaaatgaattttcaaatgagagaaaaataggttcctttaagaaagctagagtccaggtcctgaagccttgaattgctggcagttctgtcaag}$ 600 gtggactacaccacatctccatgaaccttcccaaccatggtaaaccggatgaacacagtatcacaaatcagtccccagctgaagtccggctattgcagg $900\ {\tt tattgtagtcataagagtgaaaacccaaccatgagctgagaccagcccgctcctaacttttctatggcctgagacccagctcctgttattctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttctgttc$ $1000 \ \texttt{ttcttttctttttaatttatttatttatttatgtaggtacagtgtcactgtcttcagacaccagaagagggtgtcagatcccattacagatggtt}$ 1400 ttcgagagggctgggggctgggggctggggctggagccactgttttatctcagtctgttgtttccacag GGGACATACCACCTGGAATCAGAAACACC G D I P P G I R N T 1500 GTGTGCTTCATGCAGGGGGCCACTGTAGGCTCTTCATGTGCCGTTCTGGGGAGAAAAGGGGGATATTTGCTCTGACCCCTGGAACAGATGCTGCGTAT V C F M Q R G H C R L F M C R S G E R K G D I C S D P W N R C C V 1600 CCAGTTCCATTAAAAACAGATGATAGAAGACTCATTGGAAGATCTGAGATGTGGGGTGCAAGCTCTTGGAAGCTAGAGACCTGGAAGCACCCCAAAGGCT SS(S) I K N R *

FIG. 2A

1700 TTGAGTATGTGGGCTAATGGTGCGTGCTCAATAAACACTTGCTG

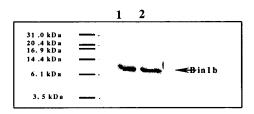


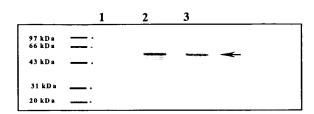
| | • | 20 | • | 4.0 | • | 60 | • | 80 |
|-------|-------------|---------------|--------------------|------------|---------------------|--------------------|------------|------|
| Bin1b | | FCLVQRNSG | | | | | | |
| EP2E | | FCLVQTNSG | | | | | | |
| BNBD9 | | | PEG V RNFV | TCRINRGFC | VPIRCPGHRR | QIGTCLGPQI. | CCR | |
| BNBD3 | | | PEG V RNHV | TCRINRGFC | VPIRCPGRTR | OFGTOFGPRI | KCCRSW | |
| BNBD7 | | | PEGVRNFV | TCRINRGFC | VPIRCPGHRR | QIGTCLGPRI | KCCR | |
| TAP | MREHHELLALE | FLVLSAWSG | FTQGVGNPV | SCVRNKGIC | VPIRCPGSMK | QI GTCVGRAV | KCCRKK | |
| LAP | | FLVLSAGSG | | | | | | |
| EBD | MRLHHLLLTLL | FLVLSAGSG | FTQGISNPL | SCRLNRGIC | VPIRCPGNLR | QIGTCFTPSV | KCCRWR | |
| HBD1 | MRTSYLLLFTL | CLLLSEMASGGNF | LTGLGHRSDHY | NCVSSGGQC | LYSACPIFTK | IQGTCYRGKA | KCCK | |
| HBD2 | MRVLYLLFSFL | FIFLMPLPG | VFGGIGDPV | TCLKSGAIC | HPVFCPRRYK | QI GTCGLPGT | KCCKKP | |
| HBD3 | MRIHYLLFALL | FLFLVPVPGHG | GIINTLQKY | YCRVRGGRC | AVLSCLPKEE | QI GKCSTRGR | CCRRKK | |
| CBD1 | MRTSYLLLFTL | CLLLSEMASGGNF | LTGLGHRSDHY | NCVSSGGQC | LYSACPIFTK | IQGTCYRGKA | KCCK | |
| CBD2 | MRVLYLLFSFL | FIFLMPLPG | VFGG T SDPV | TCLKSGAIC | HPVFCPRRYK | GIGTCGLPGT | CCKKP | |
| MBD1 | MKTHYFLLVMI | CFLFSQMEPGVGI | LTSLGRRTDQY | KCLQHGGFC | LRSSCPSNTK | LQGTCKPDKP | NCCKS | |
| MBD2 | MRTLCSLLLIC | CLLFSYTTPAVGS | LKSIGYEAELI | HCHTNGGYC | VRAICPPSAR | RPGSCFPEKN | PCCKYMK | |
| MBD3 | MRIHYLLFAFL | LVLUSPPAA | FSKKINNPV | SCLRKGGRC | WNR-CIGNTR | QIGSCGVPFL | KCCKRK | |
| MBD4 | MRIHYLLFTFL | LVLLSPLAA | FTQI T NNPI | TCMTNGAIC | WGP-CPTAFR | OIGNCGHFKV | RCCKIR | |
| RBD1 | MKTHYFLLVML | FFLFSQMELGAGI | LTSLGRRTDQY | RCLQNGGFC | LRSSCPSHTK | LQGTCKPDKP | NCCRS | |
| RBD2 | MRIHYLLFSFL | LVLLSPLSA | FTQSINNPI | TCLTKGGVC | WGP-CTGGFR | OIGTCGLPRV | RCCKKK | |
| GBD1 | MRLHHLLLVLF | FLVLSAGSG | FTQGIRSRF | SCHRNKGVC | ALTROPRNMR | QIGTCFGPPV | KCCRKK | |
| GBD2 | MRLHHLLLALF | FLVLSAGSG | FTQGIINHF | SCYRNKGVC | A P A R C P R N M R | QI GTCHGPPV | KCCRKK | |
| SBD1 | MRLHHLLLVLF | FVVLSAGSG | FTQGVRNRI | SCHRNKGVC | VPSRCPRHMR | QIGTCRGPPV. | KCCRKK | |
| SBD2 | MRIHHLLLVLF | FVVLSAGSG | FTHGVTDSI | SCRWKKGIC' | VLTRCPGTMR | QIGTCFGPPV | KCCRLK | |
| PBD1 | MRLHRLLLVFL | LMVLLPVPG | LLKNIGNS | SCLRNKGVC | MPGKCAPKMK | QIGTCGMPQV | KCCKRK | |
| Gal1 | | | GRKS | DCFRKSGFC. | AFLKCPSLTL | ISGKCSRFYL | -CCKRIW | |
| Galla | | | GRKS | DCFRKNGFC. | AFLKCPYLTL | ISGKCSRFH | -CCKRIW | |
| Gal2 | | | I | FCKGGSC | HFGGCPSHLI | KVGSCFGFRS | -CCKWPWNA- | |
| THP1 | MRIVYLLFPFI | LLLAQGAAG | SSLALGKRI | KCLRRNGFC. | AFLKCPTLSV | ISGTCSRFQ | -CCKTLLG | |
| THP2 | MRILYLLFSL | FLACQVS | PGLSSPKRDMI | | | 1000 | | **** |
| | m 1 | | | C g C | Сp | g C | cc | |

FIG. 2B

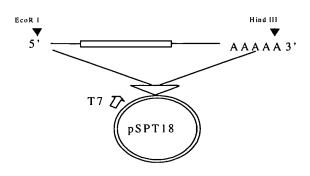
| | | 20 | • | 40 | • | 60 |
|-------|----------------------------------|-------------|------------|-------------|-------------|-------------|
| Bin1b | MK VLLLFAVFFC LV | QRNS | | | | |
| EP2E | MKVFFLFAVLFCLV | QTNS | | | | |
| EP2D | MR OR LLPSV T SLLL | VALLFPGSSQA | RHVNHSATEA | LGELBERAPO | QGTNGFQLLRH | AVKRDLLPPRT |
| HE2b1 | MRQRLLPSVTSLLL | VALLFPGSSQA | RHVNHSATEA | LGELRERAPO | QGTNGFQLLRH | AVERDLLPPRT |
| | . 80 | • | 100 | | 120 | |
| Bin1b | GDIPPGIRNT | VCFMQRGHCRL | FMCRSGERKO | DICSDPWNRO | CVSSSIKNR | |
| EP2E | GDVP L GIRNT | | | | | |
| EP2D | PPYQ GDVP L GIRNT | ICRMQQGICRL | FFCHSGEKKF | RDICSDPWNRO | CVSNTDEEGKE | KPEMDGRSGI |
| HE2b1 | PPYQGDVPPGIRNT | ICRMQQGICRL | FFCHSGEKKF | RDICSDPWNRO | CVSNTDEEGKE | KPEMDGRSGI |

FIG. 2C









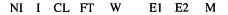
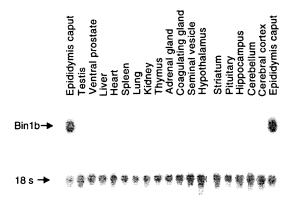




FIG. 4







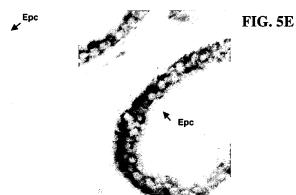


FIG. 5F

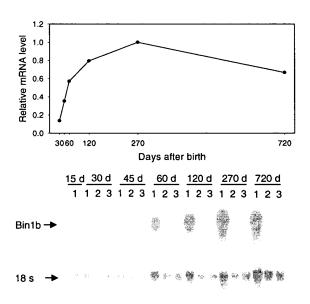
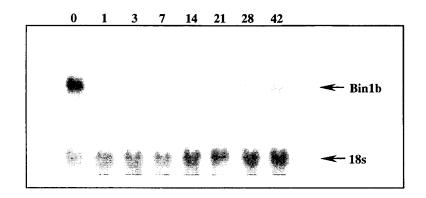


FIG. 6A





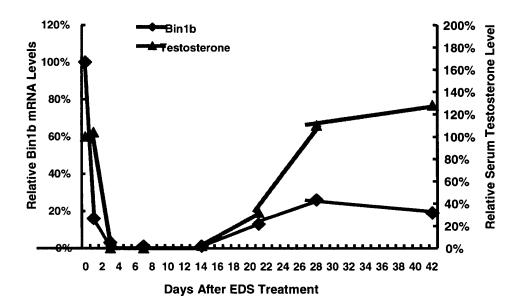


FIG. 7A

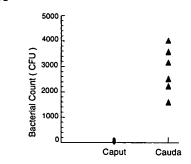


FIG. 7B

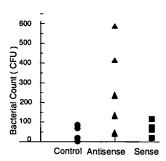


FIG. 7C

